# NewYorkCityAirbnb\_DatasetAnalysis

Analysed New York city's Airbnb using Tableau and Power BI

Introduction:

About Airbnb – A company that provides an online platform for accommodation to guests ,

travellers and tourists. It provides different varieties of rooms and homestays which are hosted by

various people registered with Airbnb properties. These rental properties include apartments,

homes, boats in different neighbourhood and are widespread all across the world. The booking

arrangement, charges 3% of the value of booking and the guests are charged 6%-12% dependent

on the type of booking. The prices for properties vary according to city and area, neighbourhood

and availability of rooms.

New York city is one of the most visited cities that caters to many tourists and travellers from

around the globe. Properties that serve to different requirements based on pricing, areas, 1 BR,

2BR and many other provide home to many tourists.

Problem:

1. Find out properties or register to accommodate for new influx of tourist?
2. Negotiating for the prices for acquiring new property?

Question:

1.What is highest and lowest value for minimum no. of nights?

2.Which neighbourhood areas are most popular? — Manhattan is the most popular neighbourhood group.

3. Which neighbourhood groups are more popular?

4. What room types are mostly preferred? – Entire Home/apt are the most preferred options.

5. How many reviews are there?

6. What is the distribution of prices for houses in different neighbourhood?

7. Which is the nearest last review date for particular property?

8. What is Highest and lowest price?

9. What is the availability?

10. Any host having more than one property?

11. How is area distribution of neighbourhoods and price distribution?

12. What localities in NYC are rated highly by guests?

13. Who are the top 10 hosts?

14. Who are the worst 10 hosts?

15. What room types are mostly preferred in different neighbourhood group?

Bronx, Brooklyn, Queens, Staten Island has private room as preferred option.

Manhattan has Entire home/apt as preferred option.

16. How number of reviews has changed over time?

Since 2011-2015 reviews were quite less and roughly same. However, from 2016 it has started seeing more rapid growth.

15. How average prices for accommodation has changed over time?

Average prices have relatively come down since 2011, there was a peak time during year 2013.

17. How the price is related no. of minimum night stay?

There are extreme values in my data which is making difficult to get conclusive finding.

18. What is the prices are varying for different home types in different neighbourhood group?

Box-Whisker Plot/Violin plot for finding extreme values in our data.

For all types of Accommodation Manhattan has extreme values.

Objective of the project:

The project aims to understand how the property listing of Airbnb in New York depends on other

parameters:

It also aims to understand various things like:

• How many neighbourhood areas are there in NYC?

• How are rental properties distributed across the neighbourhoods of NYC?

• How do prices vary with respect neighbourhoods, rental property types and rental amenities?

• How many reviews are given to a particular property?

• Who are the top 10 hosts in NYC and what kind of property do they have?

• What is the average price of different types of properties?

• How many properties are available in each area?

• What is the availability for every host?

• Does the price of the listing vary according to its location?

• What is the average price for a listing based on the neighbourhood and neighbourhood area?

• What’s the average price depending on the room type and the minimum no. of nights?

• Does the price of the listing depend on the availability of the listing?

• What’s the median price based on neighbourhood?

• Which neighbourhood area has the maximum reviews?

• What is the last date of review for a particular price?

• How does the average price vary based on neighbourhood and no. of reviews?

• What is the minimum no. of nights for properties with a median price greater than 100?

• What is the count of listing for every host?

About the dataset:

The data set is downloaded from:

https://www.kaggle.com/dgomonov/new-york-city-airbnb-open-data

https://www.kaggle.com/new-york-city/nyc-inspections

Analysing the dataset:

We can use tableau and Power BI to analyze the data set which helped us to gain insights about different the Airbnb properties in NYC.